



**GIGAWHITE™** – *a novel skin-lightener from alpine plants.*



**GIGAWHITE™** – *preservative-free tyrosinase inhibitor*

**GIGAWHITE™** – *novel skin brightener from 7 Swiss alpine plants (organically grown)*

**GIGAWHITE™** – *lightening ingredient showing reduction of age-spots colour intensity and brightening activity on Asian skin.*

**Alpaflor** 

*plant extracts from the swiss alps*

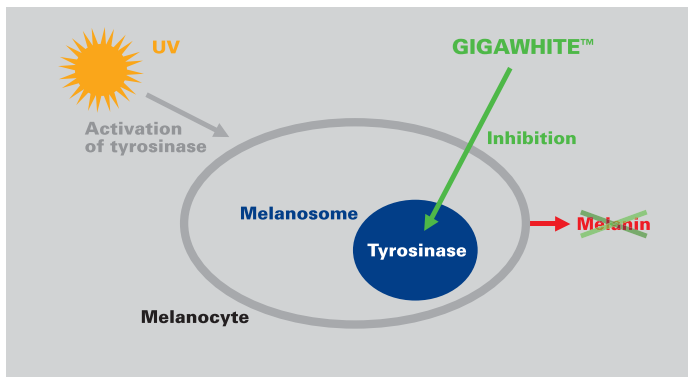
# GIGAWHITE™

**GIGAWHITE™** is a novel skin-lightener developed by Alpaflor Ltd from alpine plants that can brighten and even skin tone as well as reduce the color intensity of age-spots.

## Properties:

- Tyrosinase inhibiting activity.

**GIGAWHITE™**'s development is the result of a research program in which about a hundred plants were selected for their tyrosinase-inhibiting capacity. Dopachrome formation was measured using a spectrophotometer. Of the hundred plants tested, 15 were selected for their *in-vitro* tyrosinase-inhibiting activity and were subsequently tested on cell cultures. In the cell cultures, seven of plants manifested even greater tyrosinase-inhibiting activity. These were active not only on whole cells (with their membranes) but also on cell lysates (the membranes having been destroyed). It was this discovery that led **ALPAFLOR** to develop **GIGAWHITE™**. The plants were combined in a proprietary and synergistic ratio maximizing its activity and producing an even more effective compound. *In-vitro*, *ex-vivo* and *in-vivo* tests, **GIGAWHITE™** has an effect on the tyrosinase inhibiting mechanism involved in melanin biosynthesis.



## Functions:

- Skin lightening activity.
- Reduction of age-spots color intensity.
- Evening of skin tone.

## Cosmetic applications:

- All types of skin lightening/brighteners and anti age-spots formulations.

## Suggested concentration:

3–5% **GIGAWHITE™**

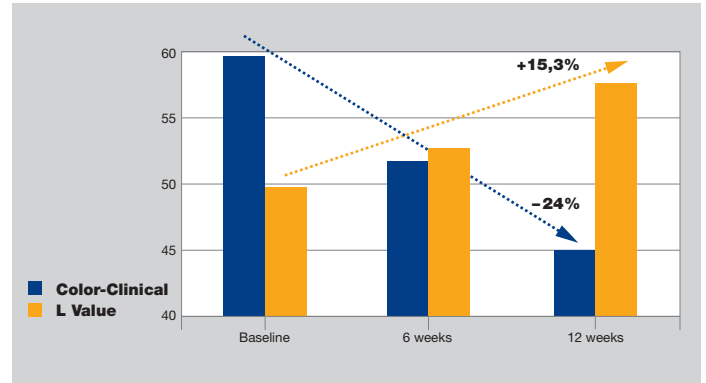
## INCI Name:

Water, Glycerin, Malva Sylvestris (Mallow) Extract, Mentha Piperita (Peppermint) Leaf Extract, Primula Veris Extract, Alchemilla Vulgaris Extract, Veronica Officinalis Extract, Melissa Officinalis Leaf Extract, Achillea Millefolium Extract

## Efficacy Tests:

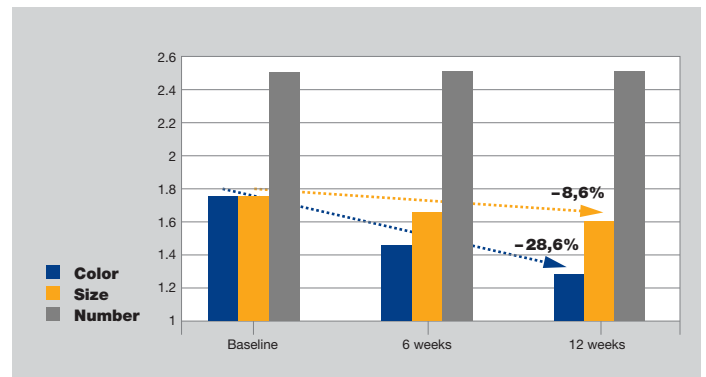
*In-vivo* tests:

### 1. Measurement of the skin lightening activity (change in skin color)



At a concentration of 5%, **GIGAWHITE™** shows significant lightening activity after 12 weeks of treatment (Asian skin) without observing any particular irritation.

### 2. Measurement of the reduction of age-spots color intensity



At a concentration of 5% and after 12 weeks, **GIGAWHITE™** shows significant reduction of age-spots color intensity.